Advanced Threat Display

FULL COLOR MULTIFUNCTION THREAT DISPLAY FOR ALL TYPES OF MILITARY AIRCRAFT

The Advanced Threat Display (ATD) is a 3ATI dedicated self-protection display with the capability of providing a real time correlated threat environment picture to the pilot.

The ATD Option Select Buttons on the front bezel make the display a single point control panel for the operation of the entire self-protection suite of subsystems, saving real estate in the cockpit and providing a capable intuitive user interface to the pilot. Different page views can be selected by the user in order to format the requested data and present views for each operational mode.

The display is based on LCD technology with impressive characteristics such as excellent sunlight performance and night vision capabilities.

TECHNICAL DESCRIPTION

The ATD design is based on a modular concept allowing for a family of configurations with different data interfaces and front bezels to accommodate optimal installation in specific cockpit environments.

Baseline design of the ATD utilizes powerPC controller design for advanced display functions.

ATD interfaces allow for operation either as standard display (digital video from external source), as intelligent display with only data interface to external world, or even as controller for e.g. a chaff/flare dispenser and a Missile Warning System.

TERMA
ALLIES IN INNOVATION

www.terma.com

© Terma 2013

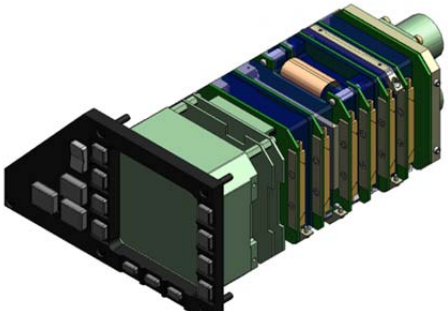
Advanced Threat Display

GENERAL TECHNICAL OVERVIEW

NVIS compatibility	MIL-L-85762A Type II Class B
Panel Illumination	MIL-P-7788
Display	Active Matrix Liquid Crystal Display (AMLCD)
Viewing Angle	+/- 30° up-down (3x3" & 4x3" ver.) +/- 60° transverse (3x3" & 4x3" ver.) -5/+17° up-down (6x3" ver.) -5/+23° transverse (6x3" ver.)
Resolution	300 x 300 pixels
Color Depth	24 bit
Luminance	200 fl
Contrast Ratio	10.000 fc diffuse lighting: > 7:1 10.000 fc diffuse and 2.000 fL specular lighting: > 3:1
Power Consumption	40 watt max @ 28 volt DC (70 watt max w. heater activated)
Weight	2.65 lbs.
Dimensions (l x w x h)	7.87" x 3.27" x 3.27" (3x3" version) 7.87" x 3.63" x 3.27" (4x3" version) 7.87" x 6.08" x 3.46" (6x3" version)
Supported Video Interfaces	TMDS (DVI) RS-170A (option) Stroke Video (option)
Supported Data Interfaces	EIA-422/485 2 x Ethernet, 10BASE-T & 100BASE-TX MIL-STD-1553B (option) ARINC-429 (option) Dispense Station Data Bus (option)
Embedded Processing Capability **Processor**	PowerPC @ 300MHz RAM: 128 MByte Flash: 192 Mbyte

CURRENTLY INTEGRATED ON AND CERTIFIED FOR

AH-64D Apache
CH-47D&F Chinook
C-160 Transall
AS532 Cougar
C-295 JointCargo Aircraft
F-16 A/B
P-8 MMA
MI-17/MI-24



Modular design

Data presentation

ATD in F-16